

BRUHAT BANGALORE MAHANAGARA PALIKE**YELHANKA ZONE ELECTRICAL DIVISION**

Name of Work:-Detailed Estimate for Providing Tubular Poles Control wires to meSwitches and Energy efficient LED Street Light to Kattegenahalli Colony, Ambedkarnagar, Tippunagara, Sundeepunikrishnanagara and Surrounding areas in Ward No 5Jakkur.

Budget Head

Division No..... Estimate No. For Rs. **5000000.00**

Sl.N o.	SR Page & SL No	Description of Work	Qty.	Rate Rs.	Unit	Amount
1	27/4.36. 1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.				
		LED Light fixture with W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	138	31250.00	Nos	4312500.00
2	108/17. 12	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	132	893.00	Nos	117876.00
3	12/2.12. 1	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded Aluminium unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm.	280	7.50	Mtrs	2100.00
4	108/ 17.5	Fixing halogen/ metal hallide /SVL/IL/LED flood light fittings over existing pole/ wall ceiling including clamps bolts nuts and wiring using suitable capacity wires	100	176.00	Nos	17600.00

5	50/6.41.1	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	6	2178.00	Nos	13068.00
6	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (lcu = lcs) THREE POLE 100Amps 25kA.	6	4044.00	Nos	24264.00
7	49/6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	6	263.00	Mtrs	1578.00
8	56/7.6.4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A2 X 25 + 1 X 25 SQ.MM	100	143.00	Per Mtr	14300.00
9	Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCO SR	100	10.30	Per Mtr	1030.00
		total Rs				4504316.00
		KRIDL Charges 11%				495474.76
		Mislenious				209.24
		Total				5000000.00

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 & Approved rate.

T. N. Balaji
jr/Asst. Engineer (Elec)

[Signature]
Asst. Exe.Engineer (Elec)
yelhanka zone
Bruhat Bangalore Mahanagara Palike

Administrative Sanction for Rs. **50.00 LAKHS**
RUPEES FIFTY LAKHS ONLY
EXECUTIVE ENGINEER (ELEC)
YELHANKA ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE

is accorded for **P 1878 1800 - WORKS**
(BHAGYAGHATHI, SOORU/NEER YOTANE AND GENERAL) 54 LAKHS (NEW WARDS)
34/2018-19
Subject
to consult with **BBMP/EG/ELE/42/AS/34/2018-19**
Dt **04.10.2018**

Technical Sanction
Accorded for **RS 50.00 lakhs only**
Head of A/E **P-1878**
CER NO **75/58/18-19 Dt: 04.10.18**

[Signature]
TA *[Signature]* (YNK)